A 5
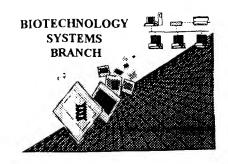
RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: **09/831,951**

Source: **PCT/09**

Date Processed by STIC: **9/5/2001**

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
 PATENTIN 2.1 e-mail help: patin21help@uspto.gov **or phone 703-306-4119 (R. Wax)**
 PATENTIN 3.0 e-mail help: patin3help@uspto.gov **or phone 703-306-4119 (R. Wax)**

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker

PCT09

RAW SEQUENCE LISTING   DATE: 09/05/2001
PATENT APPLICATION: US/09/831,951   TIME: 13:21:11

Input Set : A:\Osanai Seq Lst 8-14-01.txt
Output Set: N:\CRF3\09052001\I831951.raw

Does Not Comply
Corrected Diskette Needed

```
        1 <110> APPLICANT: Osanai, Tomoniro
        2        Magota, Koji
W-->    3 <120> TITLE OF INVENTION: Inhibitor and Activator of Coupling Factor-6 and Antigen
thereto
W-->    4 <130> FILE REFERENCE: 46220
W-->    5 <140> CURRENT APPLICATION NUMBER: US 09/831,951
        6 <141> CURRENT FILING DATE: 2001-05-16
        7 <150> PRIOR APPLICATION NUMBER: JPA 264687/99
        8 <151> PRIOR FILING DATE: 1999-09-17
W-->    9 <160> NUMBER OF SEQ ID: 24
```

pp 1-2

ERRORED SEQUENCES

```
      117 <210> SEQ ID NO: 6
      118 <211> LENGTH: 23
      119 <212> TYPE: DNA
      120 <213> ORGANISM: Artificial Sequence
W--> 121 <220> FEATURE:
W--> 122 <221> NAME/KEY:
      123 <222> LOCATION:
      124 <223> OTHER INFORMATION: Primer used in PCR method
W--> 125 <400> SEQUENCE: 6
E--> 126 atgactgttc agaggatctt cag
      129 <210> SEQ ID NO: 7
      130 <211> LENGTH: 27
      131 <212> TYPE: DNA
      132 <213> ORGANISM: Artificial Sequence
W--> 133 <220> FEATURE:
W--> 134 <221> NAME/KEY:
      135 <222> LOCATION:
      136 <223> OTHER INFORMATION: Primer used in PCR method
W--> 137 <400> SEQUENCE: 7
E--> 138 gtcgactcag gactggggtt tgtcgag
      141 <210> SEQ ID NO: 8
      142 <211> LENGTH: 23
      143 <212> TYPE: DNA
      144 <213> ORGANISM: Artificial Sequence
W--> 145 <220> FEATURE:
W--> 146 <221> NAME/KEY:
      147 <222> LOCATION:
      148 <223> OTHER INFORMATION: Primer used in PCR method
W--> 149 <400> SEQUENCE: 8
E--> 150 atgattcttc agaggctctt cag
      153 <210> SEQ ID NO: 9
      154 <211> LENGTH: 28
      155 <212> TYPE: DNA
      156 <213> ORGANISM: Artificial Sequence
```

23 ← insert cumulative base total at right margin of each line

27 ← insert

23 ←

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/831,951

DATE: 09/05/2001
TIME: 13:21:11

Input Set : A:\Osanai Seq Lst 8-14-01.txt
Output Set: N:\CRF3\09052001\I831951.raw

```
W--> 157 <220> FEATURE:
W--> 158 <221> NAME/KEY:
      159 <222> LOCATION:
      160 <223> OTHER INFORMATION: Primer used in PCR method
W--> 161 <400> SEQUENCE: 9
E--> 162 gtcgactcag gcctggggtt tttcgatg                          28 <-
      165 <210> SEQ ID NO: 10
      166 <211> LENGTH: 45
      167 <212> TYPE: DNA
      168 <213> ORGANISM: Artificial Sequence
W--> 169 <220> FEATURE:
W--> 170 <221> NAME/KEY:
      171 <222> LOCATION:
      172 <223> OTHER INFORMATION: Gene coding for enterokinase recognition site and Eco RI
recognition
      173       site
W--> 174 <400> SEQUENCE: 10
E--> 175 gaattcgacg atgacgataa gaataaggaa cttgatcctg tacag          45 <-
      178 <210> SEQ ID NO: 11
      179 <211> LENGTH: 46
      180 <212> TYPE: DNA
      181 <213> ORGANISM: Artificial Sequence
W--> 182 <220> FEATURE:
W--> 183 <221> NAME/KEY:
      184 <222> LOCATION:
      185 <223> OTHER INFORMATION: Gene coding for enterokinase recognition site and Eco RI
recognition
      186       site
W--> 187 <400> SEQUENCE: 11
E--> 188 gaattcgacg atgacgataa gaataaggaa cttgatccta tacaga         46 <-
      295 <210> SEQ ID NO: 22
      296 <211> LENGTH: 31
      297 <212> TYPE: DNA
      298 <213> ORGANISM: Artificial Sequence
W--> 299 <220> FEATURE:
W--> 300 <221> NAME/KEY:
      301 <222> LOCATION:
      302 <223> OTHER INFORMATION: Primer for PCR method
W--> 303 <400> SEQUENCE: 22
E--> 304 gatcgaggga cgtaataagg aacttgatcct
      307 <210> SEQ ID NO: 23
      308 <211> LENGTH: 26
      309 <212> TYPE: DNA
      310 <213> ORGANISM: Artificial Sequence
W--> 311 <220> FEATURE:
W--> 312 <221> NAME/KEY:
      313 <222> LOCATION:
      314 <223> OTHER INFORMATION: Primer for PCR method
W--> 315 <400> SEQUENCE: 23
E--> 316 gtcgacttaggactggggtttgtcga                                26
```
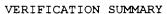
[handwritten annotations:] insert a space after each group of 10 bases in a non-coding sequence

[handwritten:] separate into groups of 10

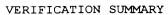**VERIFICATION SUMMARY**
PATENT APPLICATION: US/09/831,951   DATE: ꞏꞏꞏꞏ ꞏꞏꞏ
                                      TIME: ꞏꞏꞏꞏꞏꞏ

Input Set : A:\Osanai Seq Lst 8-14-01.txt
Output Set: N:\CRF3\09052001\I831951.raw

```
L:3 M:28? W: Missing Blank Line separator, <1..> field identifier
L:4 M:28* W: Missing Blank Line separator, <130> field identifier
L:5 M:28* W: Missing Blank Line separator, <14.> field identifier
L:9 M:28* W: Missing Blank Line separator, <1..> field identifier
L:16 M:2.3 W: Missing Blank Line separator, <4..> field identifier
L:3. M:2.3 W: Missing Blank Line separator, <400> field identifier
L:6. M:283 W: Missing Blank Line separator, <220> field identifier
L:6. M:267 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:6. M:2.3 W: Missing Blank Line separator, <4..> field identifier
L:7. M:2.3 W: Missing Blank Line separator, <400> field identifier
L:1.. M:18? W: Missing Blank Line separator, <400> field identifier
L:1.1 M:183 W: Missing Blank Line separator, <220> field identifier
L:1.. M:167 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:1.. M:183 W: Missing Blank Line separator, <400> field identifier
L:1.6 M:154 E: No. of Bases conflict, LENGTH:Input:0 Counted:23 SEQ:6
L:1.. M:1.3 W: Missing Blank Line separator, <220> field identifier
L:1.4 M:167 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:1.. M:18. W: Missing Blank Line separator, <400> field identifier
L:1.8 M:154 E: No. of Bases conflict, LENGTH:Input:0 Counted:27 SEQ:7
L:14. M:1.3 W: Missing Blank Line separator, <220> field identifier
L:14. M:167 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:14. M:2.3 W: Missing Blank Line separator, <400> field identifier
L:15. M:154 E: No. of Bases conflict, LENGTH:Input:0 Counted:23 SEQ:8
L:15. M:18? W: Missing Blank Line separator, <220> field identifier
L:1.. M:167 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9
L:1.1 M:1.3 W: Missing Blank Line separator, <400> field identifier
L:1.. M:154 E: No. of Bases conflict, LENGTH:Input:0 Counted:28 SEQ:9
L:1.4 M:183 W: Missing Blank Line separator, <220> field identifier
L:1.. M:167 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:10
L:1.. M:1.3 W: Missing Blank Line separator, <400> field identifier
L:17. M:154 E: No. of Bases conflict, LENGTH:Input:0 Counted:45 SEQ:10
L:18. M:1.3 W: Missing Blank Line separator, <220> field identifier
L:18. M:167 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11
L:18. M:183 W: Missing Blank Line separator, <400> field identifier
L:18. M:154 E: No. of Bases conflict, LENGTH:Input:0 Counted:46 SEQ:11
L:1.. M:183 W: Missing Blank Line separator, <400> field identifier
L:1.. M:183 W: Missing Blank Line separator, <400> field identifier
L:1.. M:183 W: Missing Blank Line separator, <4.8> field identifier
L:... M:183 W: Missing Blank Line separator, <4.0> field identifier
L:... M:183 W: Missing Blank Line separator, <400> field identifier
L:1.. M:183 W: Missing Blank Line separator, <400> field identifier
L:... M:183 W: Missing Blank Line separator, <400> field identifier
L:... M:183 W: Missing Blank Line separator, <400> field identifier
L:... M:183 W: Missing Blank Line separator, <400> field identifier
L:... M:183 W: Missing Blank Line separator, <220> field identifier
L:2.. M:167 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21
L:2.1 M:183 W: Missing Blank Line separator, <400> field identifier
L:29. M:183 W: Missing Blank Line separator, <220> field identifier
```

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/831,951

DATE:
TIME:

Input Set : **A:\Osanai Seq Lst 8-14-01.txt**
Output Set: **N:\CRF3\09052001\I831951.raw**

```
L:300 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:22
L:303 M:283 W: Missing Blank Line separator, <4   > field identifier
L:304 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:31 SEQ:22
L:311 M:283 W: Missing Blank Line separator, <220> field identifier
L:312 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:23
L:315 M:283 W: Missing Blank Line separator, <4   > field identifier
L:316 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:26 SEQ:23
L:323 M:283 W: Missing Blank Line separator, <220> field identifier
L:324 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:24
L:327 M:283 W: Missing Blank Line separator, <400> field identifier
```